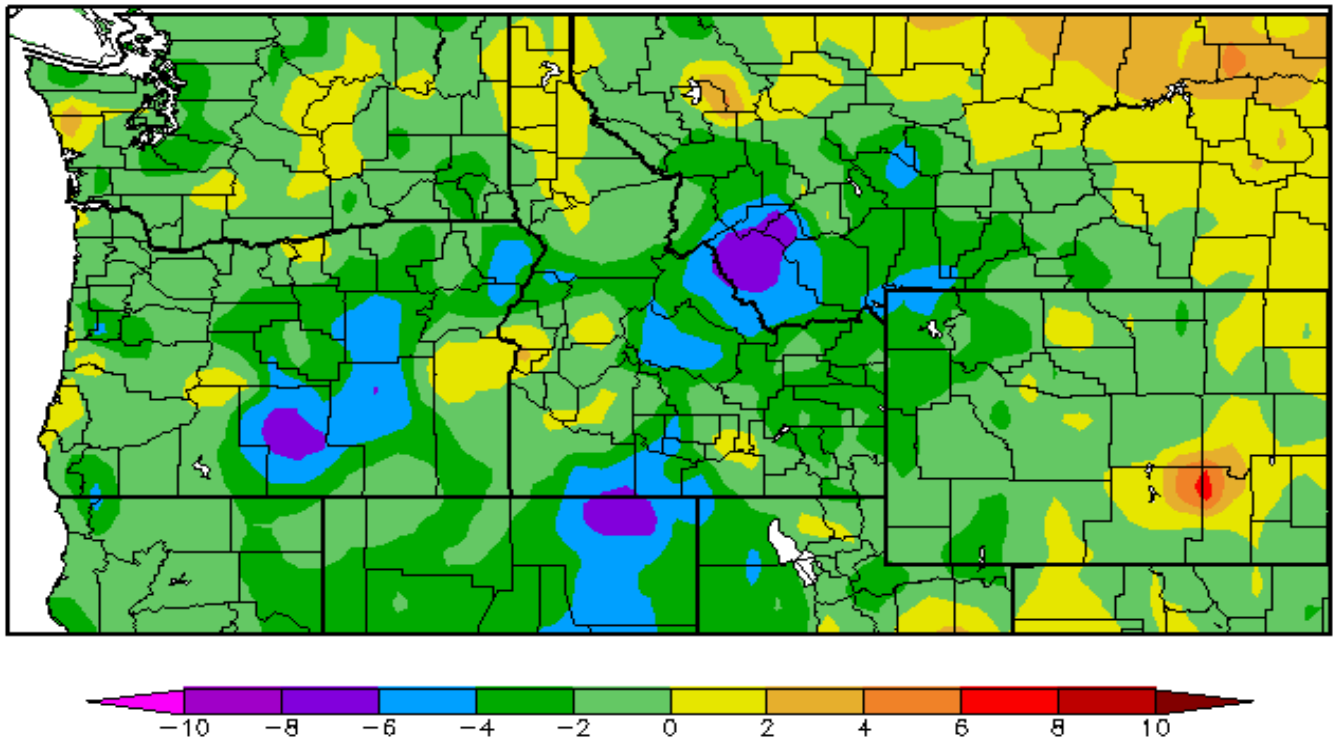
The Month In Review

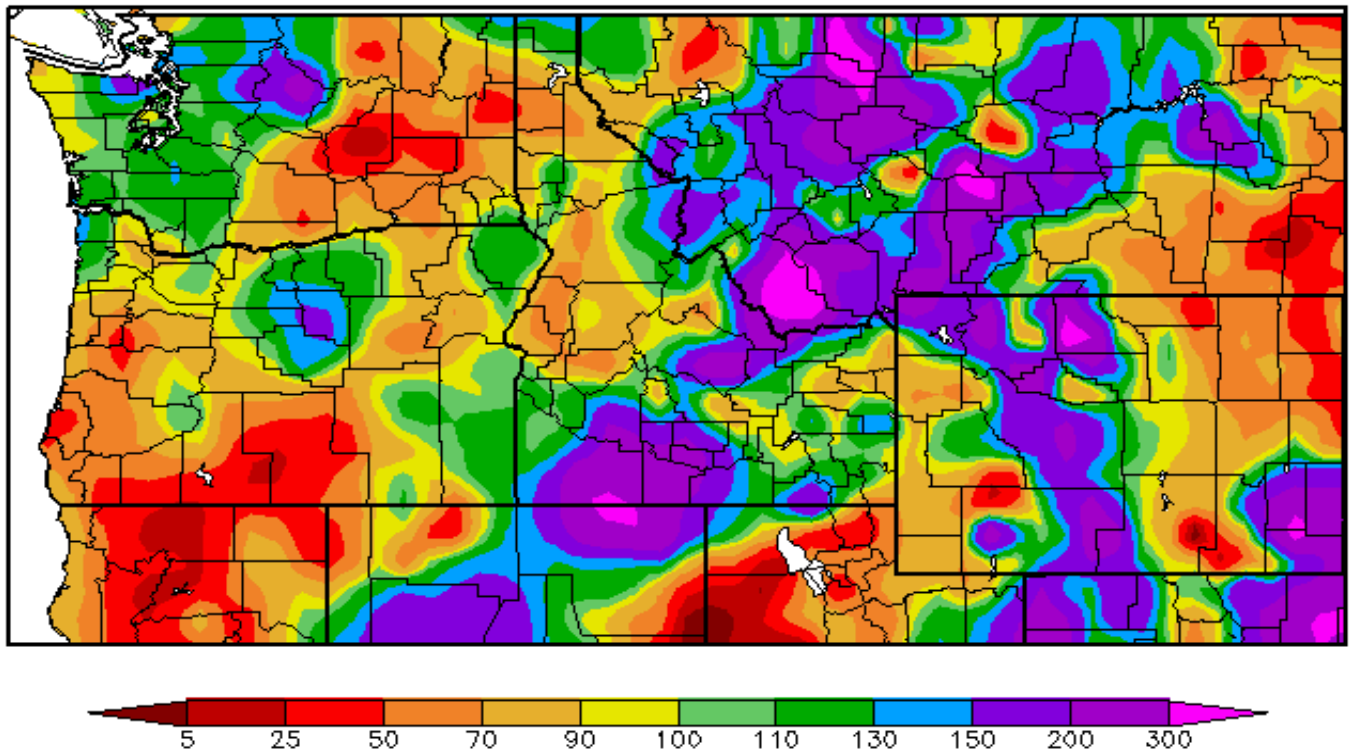
November 2015

National Weather Service
Pendleton, Oregon

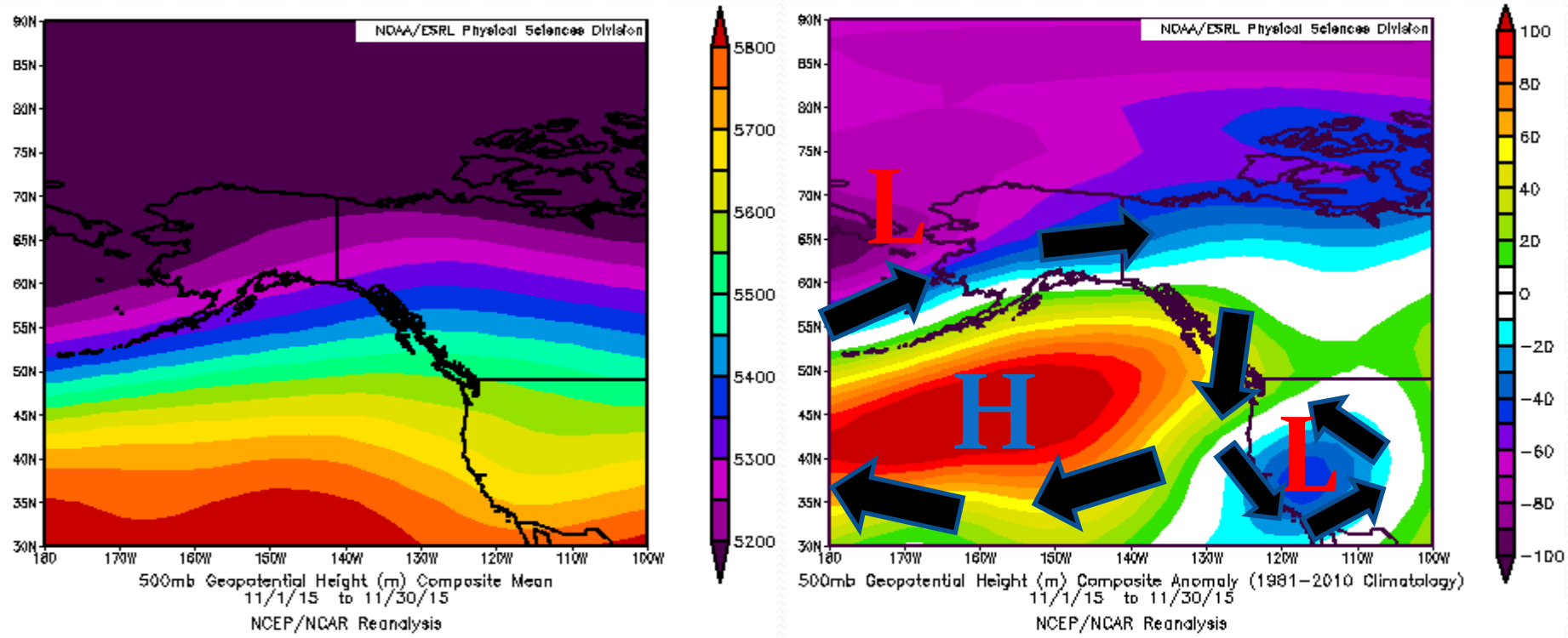
Departure From Normal Temperature (F)
11/1/2015 – 11/30/2015



Percent of Normal Precipitation (%)
11/1/2015 - 11/30/2015



November 2015
Synoptic Weather Pattern



The mean synoptic pattern for the month of November 2015 was characterized by a large, anomalous trough across and north of Alaska with an upper level ridge extending across the Gulf of Alaska and into the Pacific Northwest and southwestern Canada. There was also an upper level low over California and the Southwest US. This pattern allowed for some temperature swings through the month, but averaging out near or just below normal along with variable precipitation amounts. In general there was near to below average precipitation over the much of the region, while above average precipitation amounts prevailed for Central Oregon and the East slopes of the Washington Cascades.

Top 10 November Record Daily High Temperatures

City	Rank	Nov 2015 Max T	November Max T Record
Ellensburg, WA	#4	64 on 11/13	67 on 11/03/2007
Arlington, OR	#4(T)	73 on 11/01	84 on 11/24/1894
Moro, OR	#6(T)	70 on 11/01	72 on 11/07/2006
The Dalles, OR	#7	70 on 11/17	73 on 11/10/1989
Dayville, OR	#7(T)	75 on 11/01	79 on 11/08/2012

Top 10 November Record Warmest Minimum Temperatures

City	Rank	Nov 2015 Min T	Warmest Nov Min T
Yakima, WA	#3(T)	52 on 11/14	55 on 11/09/2009
Dayville, OR	#5(T)	53 on 11/15	64 on 11/07/2006
Pendleton, OR	#5(T)	53 on 11/13	62 on 11/06/2006
Long Creek, OR	#6	49 on 11/15	57 on 11/12/1999
Pelton Dam, OR	#6	52 on 11/14	62 on 11/07/2006
Moro, OR	#8(T)	49 on 11/14	58 on 11/07/2006
Kennewick, WA	#9(T)	55 on 11/14	65 on 11/07/2006
Walla Walla, WA	#10	53 on 11/13	62 on 11/12/1999

Top 10 November Record Coldest Minimum Temperatures

City	Rank	Nov 2015 Min T	Coldest Nov Min T
Sunriver, OR	#1	-8 on 11/27	-6 on 11/24/2010
Meacham, OR	#8	-5 on 11/27	-16 on 11/15/2014
Redmond, OR	#10	-7 on 11/30	-19 on 11/16/2014

Top 10 Daily November Precipitation Records

City	Rank	Nov 2015 Precipitation	Highest Daily Nov Precipitation
Easton, WA	#3	2.88" on 11/01	10.46" on 11/07/2006
Dayville, OR	#7(T)	0.44" on 11/19	0.93" on 11/19/1996
Cle Elum, WA	#7(T)	1.80" on 11/17	3.45" on 11/06/2006
Hermiston, OR	#8	0.35" on 11/19	0.76" on 11/08/2000

Top 10 Daily November Snowfall Records

City	Rank	Nov 2015 Snowfall	Highest Daily Nov Snowfall
Sunriver, OR	#1	8.0" on 11/25	7.0" on 11/29/2001
Prineville, OR	#3(T)	3.0" on 11/25	13.0" on 11/05/1973
Madras, OR	#4(T)	6.0" on 11/25	13.0" on 11/05/1973
Long Creek, OR	#4(T)	5.0" on 11/25	9.0" on 11/24/1981
Dayville, OR	#5	2.3" on 11/25	6.5" on 11/30/1983
Redmond, OR	#7	3.8" on 11/24	14.9" on 11/05/1993
Whitman Mission	#9(T)	0.5" on 11/25	3.5" on 11/23/2010
Grizzly, OR	#10	5.0" on 11/24	12.0" on 11/06/1973

November Significant Weather

November 16 – 17th

Significant Wind & Blowing Dust

Location	Peak Wind Gust	Comments & Notes
3 W Kooskooski	99 MPH	SW 84G99MPH
10 NNW Richland	76 MPH	Hanford Facility
8ENE Kittitas	75 MPH	None
5ESE Dixie, WA	73 MPH	High Bridge RAWS
13WSW Mikkalo	68 MPH	AJAX Mesonet
5WNW Terrebone	67 MPH	None
Sisters, OR	66 MPH	Trees down Hwy 20
Hermiston, OR	62 MPH	KHRI ASOS
Richland, WA	61 MPH	KRLD AWOS
Pendleton, OR	59 MPH	KPDT ASOS
Stanfield, OR	NA MPH	Dust Storm on I-84

Dust storm triggers fatal Oregon crash (KNDU-TV)

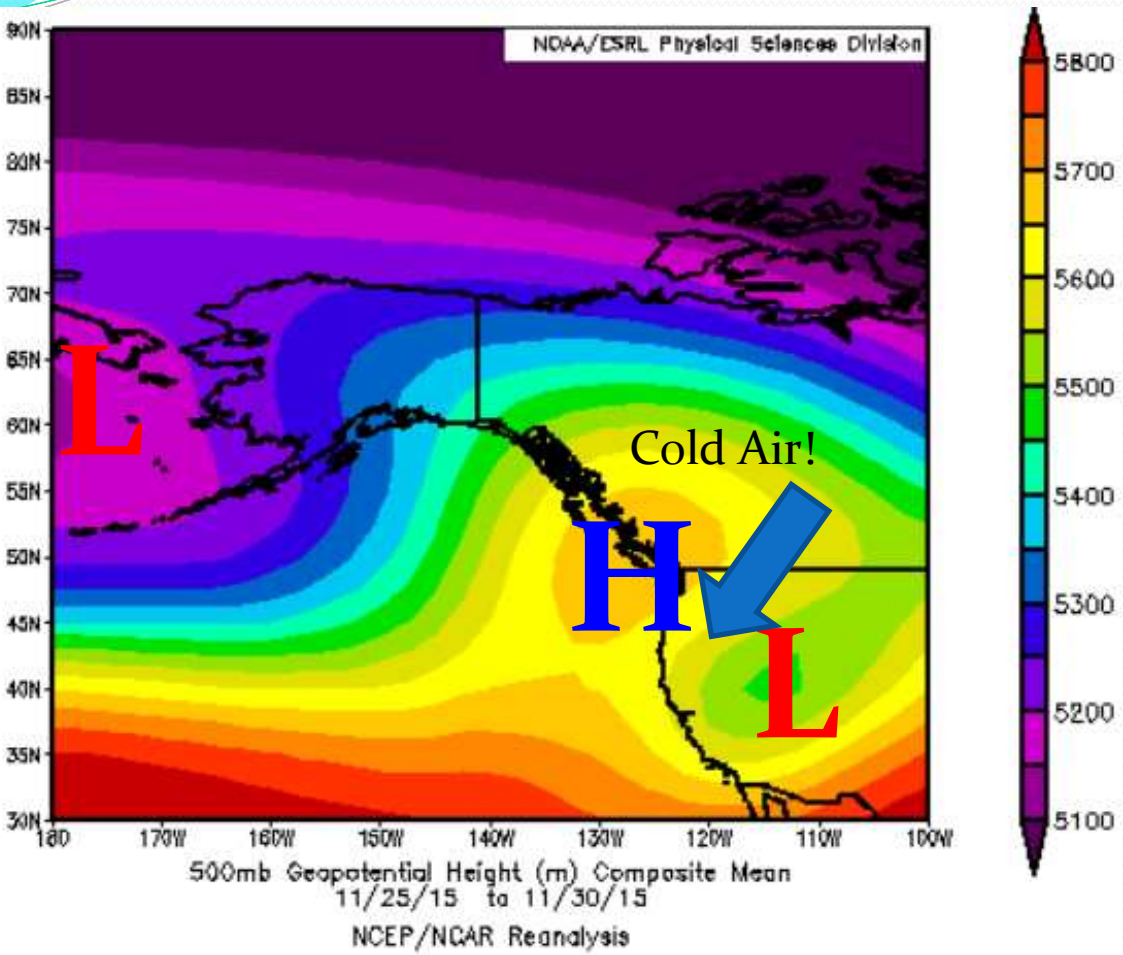
A powerful cold front combined with strong upper level winds as it moved through the area on November 16-17th . Behind the cold front winds increased with numerous gusts over 55 MPH reported across the region. These strong winds caused damage, including falling trees, and even ripping off parts of roofs. The winds also picked up dust, causing a dust storm along I-84 near Stanfield, OR which claimed one life and injured several others. High wind warnings were in effect during this time.

November 24 – 25th Snow Event

Location	Snow	Location	Snow
1E Bend	16.0”	Long Creek	5.0”
14 SW Post	13.0”	Seneca	4.0”
8SE Prineville	11.0”	Pilot Rock	3.0”
6N Ashwood	10.0”	Heppner	3.0”
2SE Mitchell	10.0”	Condon	3.0”
5NNW La Pine	10.0”	5WSW Yakima	2.0”
1WSW Redmond	8.6”	Pendleton	1.6”
Sunriver	8.0”	Enterprise	1.5”
Madras	8.0”	Walla Walla	1.0”
7NE Sisters	8.0”	Pasco	0.5”

A closed mid and upper level low pressure system move south through Oregon on November 24th bringing with it colder temperatures and periods of snow. A northerly wind created an area of enhanced upslope snowfall in parts of Central Oregon where more than a foot of snow was recorded in and around Bend! Several top 10 snow records for November were broken during this storm across the forecast area. Numerous winter storm warnings and advisories were issued.

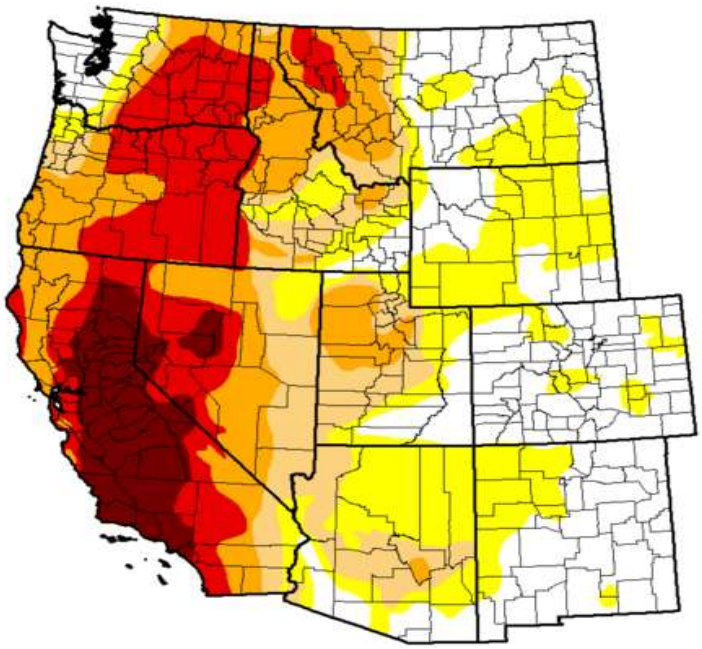
November 26 – 30th Cold Outbreak



(Above) After a low pressure system brought snow to the area on 11/24-25th the flow of air turned northeasterly out of Canada, over the Pacific Northwest. This combined with fresh snow cover and surface high pressure to create very cold temperatures in some locations. Several locations fell below zero for overnight lows during this period.

Location	Minimum Temperature
Sunriver, OR	-8
Redmond, OR	-7
Grizzly, OR	-5
Bend, OR	-4
John Day, OR	1
Pendleton, OR	9
Yakima, WA	9
Moro, OR	10
La Grande, OR	10
Heppner, OR	11
Goldendale, WA	12
Dayton, WA	13
Richland, WA	15
Kennewick, WA	19

Ongoing Drought Conditions



Download:

December 1, 2015
(Released Thursday December 3, 2015)
Valid 7 a.m. EST

Statistics type: Traditional Percent Area Export table:

Week	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current 2015-12-01	28.98	71.02	48.88	37.23	21.16	6.85
Last Week 2015-11-24	28.26	71.74	50.57	37.61	21.35	6.85
3 Months Ago 2015-09-01	25.33	74.67	59.67	42.69	26.73	7.62
Start of Calendar Year 2014-12-30	34.76	65.24	54.48	33.50	18.68	5.40
Start of Water Year 2015-09-29	22.77	77.23	57.81	42.42	26.50	7.62
One Year Ago 2014-12-02	34.32	65.68	55.16	34.01	18.98	8.45

Estimated Population in Drought Areas: **50,819,829** View More Statistics

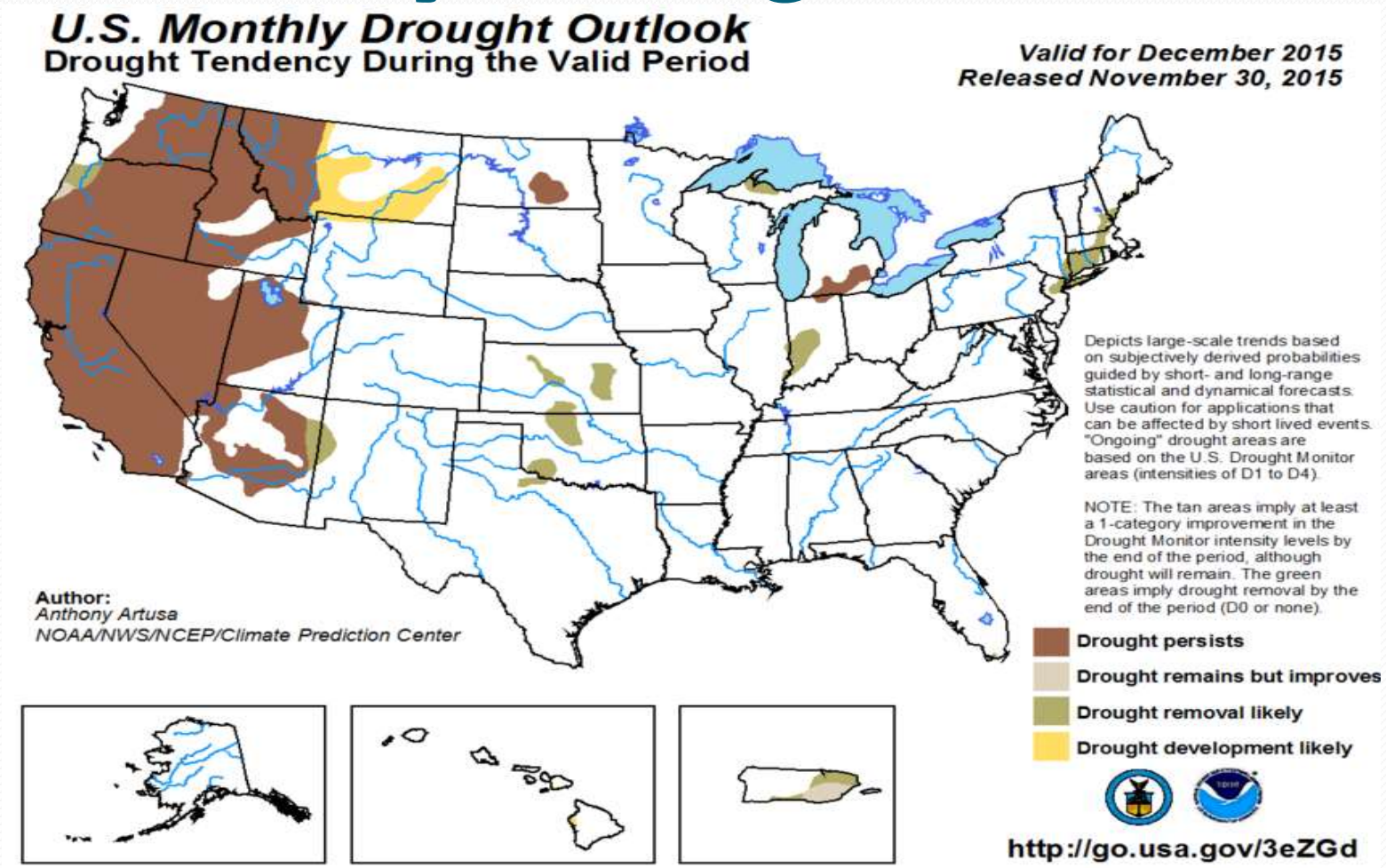
Intensity:
D0 (Abnormally Dry) D1 (Moderate Drought) D2 (Severe Drought) D3 (Extreme Drought) D4 (Exceptional Drought)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author(s):
David Simeral, Western Regional Climate Center

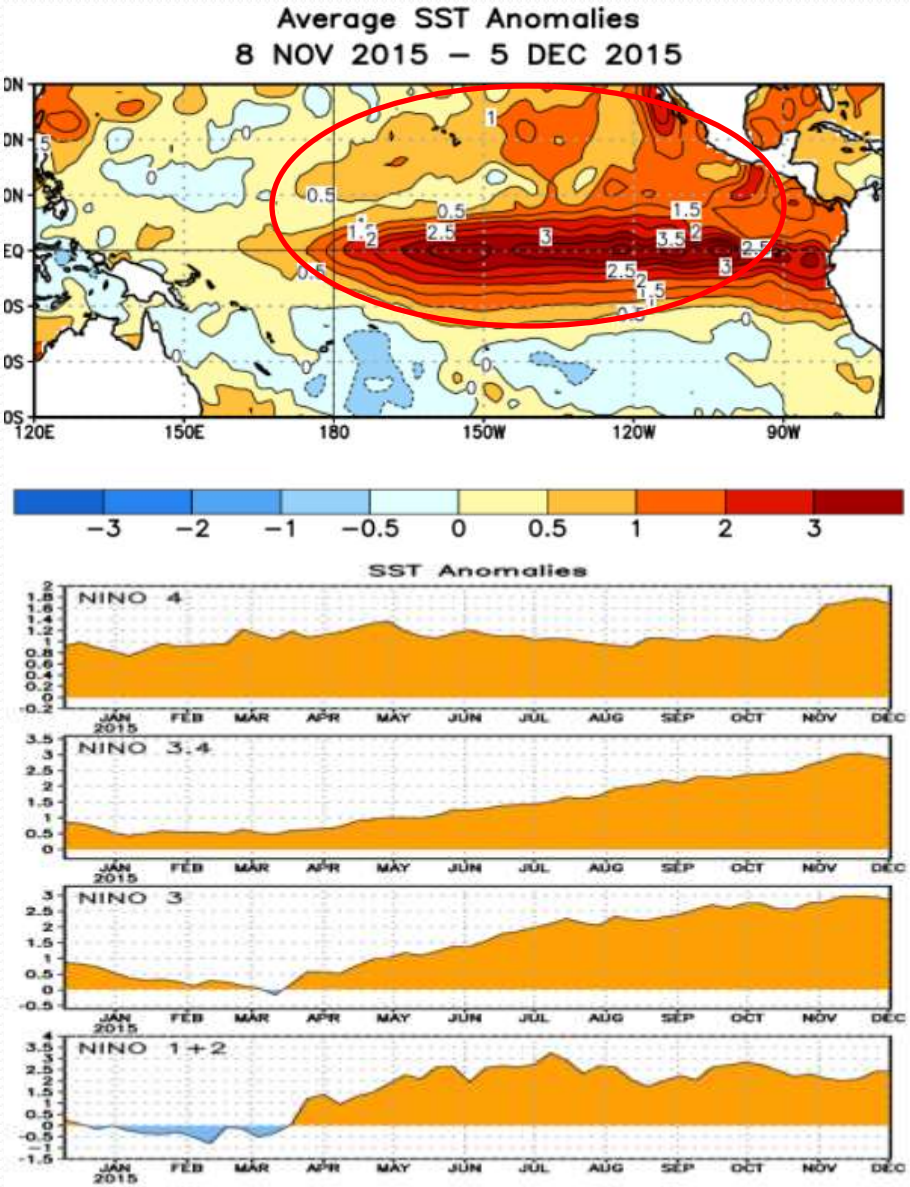
Extreme drought (D3) continues over much of Northeastern Oregon and Southeastern Washington, which was exacerbated by another dry month. Parts of Deschutes & Crook Counties continue with D2 (severe drought) status. Improvement noted west of Cascades.

Monthly Drought Outlook



The monthly drought outlook from CPC indicates drought persisting or intensifying for much of our area. The only exception is along the East slopes of the Cascades where some improvement is forecast. This may be updated next month to reflect recent trends in precipitation across our area.

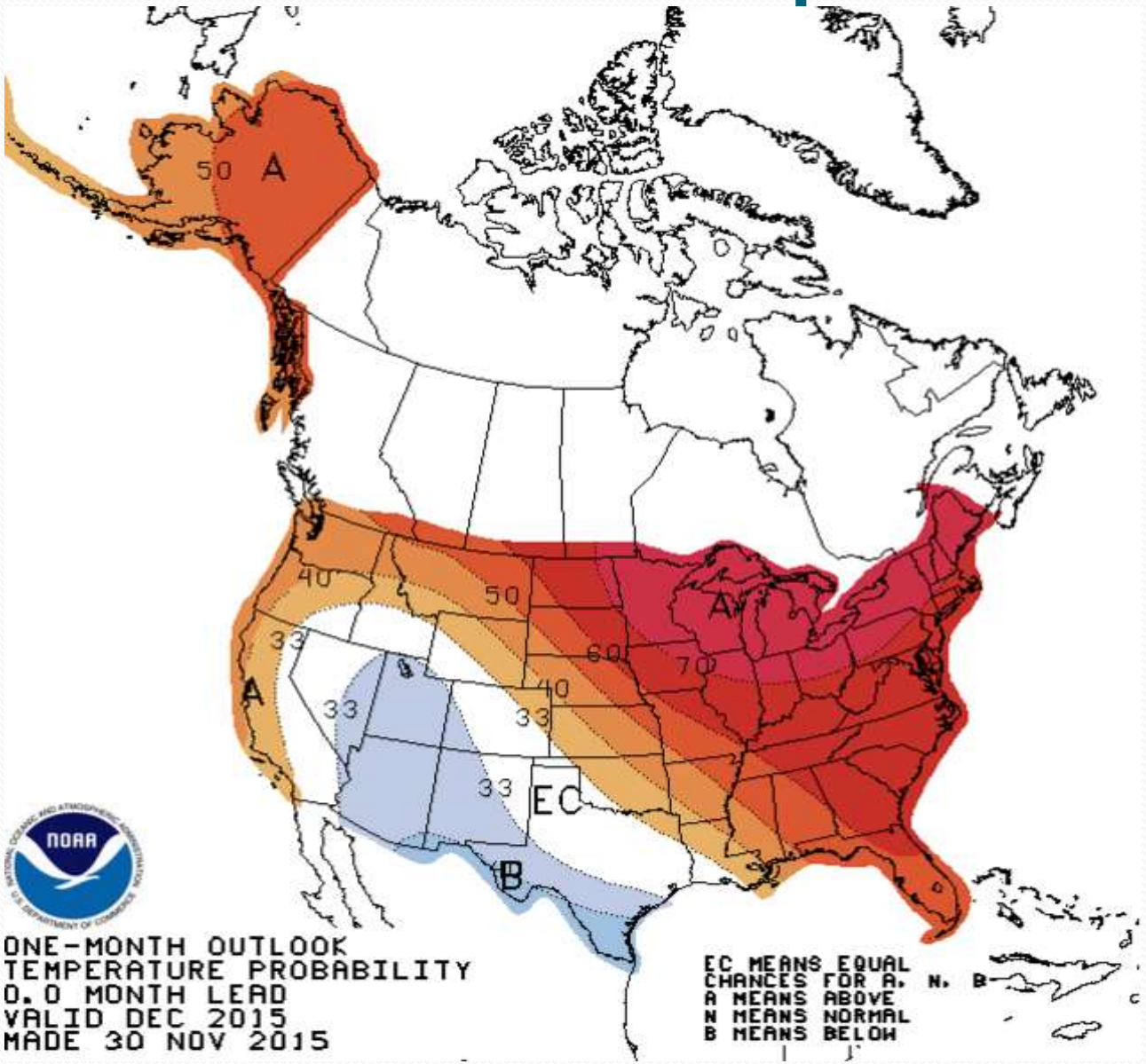
El Niño Advisory Continues



- An El Niño Advisory has been issued by the Climate Prediction Center, with the warmest temperatures noted off the South American coast along the Equator. **El Niño conditions are present**
- The Climate Prediction Center has stated that El Nino will likely peak during the 2015-16 winter with ENSO neutral conditions developing by late spring or early summer 2016.

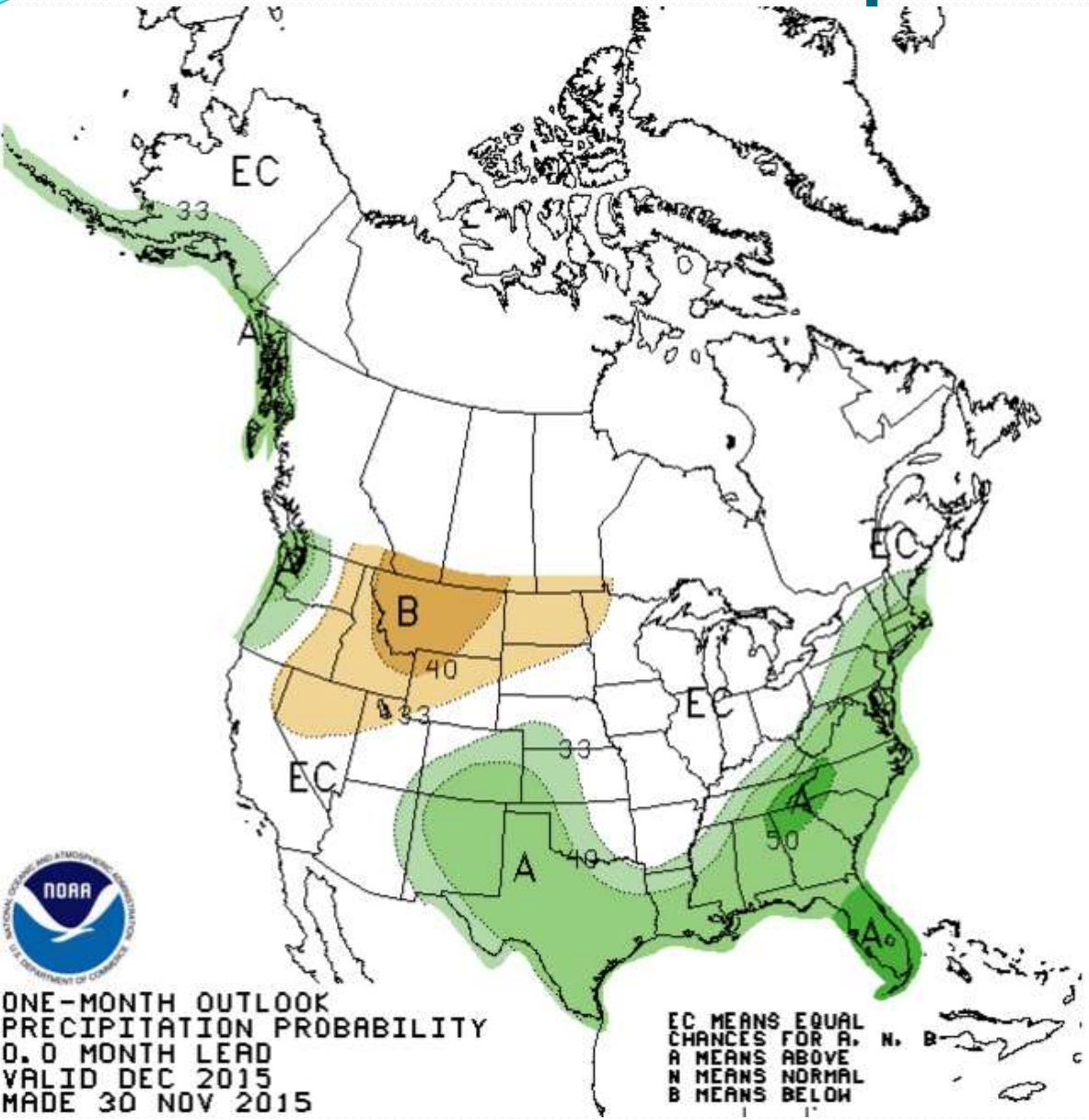
December Outlook

December Temperature Outlook



This graphic is issued by the Climate Prediction Center or CPC and is the Temperature Outlook for the month of December. The cool colors indicate a greater chance of below normal temperatures and the warm colors represent a greater chance of above normal temperatures. The time period for the normals runs from 1981-2010. Most of the Inland Pacific Northwest has a 33 – 40 percent chance for above average in the month of December, except in southeastern Oregon where there is equal chances for above, below or near normal temperatures.

December Precipitation Outlook



This graphic is CPC's Precipitation Outlook for the month of December. The green colors represent a greater chance of above normal precipitation, and the brown colors represent a greater chance of below normal precipitation. Along and west of the Cascades has a 33 – 40% chance for above average precipitation amounts, while far eastern Oregon and Washington have a 33 – 40% chance for below average precipitation amounts. In between there are equal chances for above, below or near average precipitation amounts. Please remember that these are probabilities of averages, and that the day-to-day weather will still vary for the month .

Thank You!